

**METHOD AND APPARATUS FOR DETECTING A LEAK OF EXTERNAL
AIR INTO A PLASMA REACTOR**

ABSTRACT

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A method (300) and a corresponding apparatus for detecting a leak of external air into a plasma reactor are proposed. The method includes: establishing (340) a plasma inside the reactor, the plasma having a composition suitable to generate at least one predetermined compound when reacting with the air, detecting (345) a light emission of the plasma, and analyzing (350-375) the light emission to identify the presence of the at least one predetermined compound.